

PCT

From the INTERNATIONAL BUREAU

NOTIFICATION OF THE RECORDING
 OF A CHANGE

(PCT Rule 92bis.1 and
 Administrative Instructions, Section 422)

To:

KIM, Inhan
 6F, Kyungmin B/D #18-3, Jamwon-
 Dong, Seocho-gu
 137-903 Seoul
 Republic of Korea

Date of mailing (day/month/year) 11 July 2003 (11.07.03)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference PCT00114	
International application No. PCT/KR02/01868	
International filing date (day/month/year) 07 October 2002 (07.10.02)	

1. The following indications appeared on record concerning:

☒ the applicant ☐ the inventor ☐ the agent ☐ the common representative

Name and Address

PSK TECH INC.
 430-3, Mogok-dong
 Pyungtaek-City
 Gyunggi-do 459-040
 Republic of Korea

State of Nationality
KR

State of Residence
KR

Telephone No.
+82-31-660-8762

Facsimile No.
+82-31-665-4520

Teleprinter No.

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

☐ the person ☒ the name ☐ the address ☐ the nationality ☐ the residence

Name and Address

PSK INC.
 430-3, Mogok-dong
 Pyungtaek-City
 Gyunggi-do 459-040
 Republic of Korea

State of Nationality
KR

State of Residence
KR

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3. Further observations, if necessary:

4. A copy of this notification has been sent to:

☒ the receiving Office ☐ the designated Offices concerned
☐ the International Searching Authority ☐ the elected Offices concerned
☐ the International Preliminary Examining Authority ☐ other:

The International Bureau of WIPO
 34, chemin des Colombettes
 1211 Geneva 20, Switzerland

Facsimile No. (41-22) 338-70-80

Authorized officer:

Nathalie Mansiet

Telephone No. (41-22) 338 8318

From the
INTERNATIONAL PRELIMINARY EXAMINING

PATENT COOPERATION TREATY

PCT

WRITTEN OPINION

(PCT Rule 66)

To:

KIM, Inhan

5th floor, Daerim Bldg., 1695-4 Seocho-dong, Seocho-ku,
Seoul 137-883, Republic of Korea

Date of mailing
(day/month/year) 20 APRIL 2004 (20.04.2004)

Applicant's or agent's file reference
PCT00114

REPLY DUE within 2 months from
the above date of mailing

International application No.

PCT/KR2002/001868

International filing date (day/month/year)

07 OCTOBER 2002 (07.10.2002)

Priority date(day/month/year)

19 APRIL 2002 (19.04.2002)

International Patent Classification (IPC) or both national classification and IPC

IPC7 H01L 21/3065

Applicant

PSK INC. et al

1. This written opinion is the first (first,etc.) drawn by this International Preliminary Examining Authority.

2. This opinion contains indications relating to the following items:

- I ☒ Basis of the opinion
II ☐ Priority
III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
IV ☐ Lack of unity of invention
V ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement
VI ☐ Certain documents cited
VII ☐ Certain defects in the international application
VIII ☐ Certain observations on the international application

3. The applicant is hereby invited to reply to this opinion.

When ? See the time limit indicated above. The applicant may, before the expiration of that time limit, request this Authority to grant an extension, see Rule 66.2(d)

How ? By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3
For the form and the language of the amendments, see Rules 66.8 and 66.9

Also For an additional opportunity to submit amendments, see Rule 66.4
For an examiner's obligation to consider amendments and/or arguments, see Rule 66.4bis
For an informal communication with the examiner, see Rule 66.6

If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.

4. The final date by which the international preliminary examination report must be established according to Rule 69.2 is: 09 AUGUST 2004 (09.08.2004)

Name and mailing address of the IPEA/KR



-Korean Intellectual Property Office
920 Dunsan-dong, Seo-gu, Daejeon 302-701,
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

KIM, Jun Hak

Telephone No. 82-42-481-5785



I. Basis of the opinion**1. With regard to the elements of the international application:***

- ☒ the international application as originally filed
- ☐ the description: _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____
- ☐ the claims: _____, as originally filed
pages _____, as amended (together with any statement) under Article 19
pages _____, filed with the demand
pages _____, filed with the letter of _____
- ☐ the drawings: _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____
- ☐ the sequence listing part of the description: _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the written opinion was drawn on the basis of the sequence listing:

- ☐ contained in the international application in printed form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheet/fig _____

5. ☐ This opinion has been drawn as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed."

WRITTEN OPINION

International application No.

PCT/KR2002/001868

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	7-9	Yes
	Claims	1-6	No
Inventive step (IS)	Claims	7-9	Yes
	Claims	1-6	No
Industrial applicability (IA)	Claims	1-9	Yes
	Claims		No

2. Citations and explanations

D1 : JP 10-135186(22 May 1998)

본원 발명의 청구항 제1항 내지 제6항의 반도체 기판을 고온의 핫 플레이트에서 베이킹 실시하고 경화된 포토 레지스트를 애싱 단계에서 팽팽없이 신속하게 제거하여, 웨이퍼의 애싱 공정에 소요되는 시간을 획기적으로 단축함으로써 애싱 처리량을 향상시키고, 종래의 장비를 그대로 사용 가능하며, 10 Torr 이상의 압력 상태에서 실리콘 기판을 핫 플레이트에 올려놓고 소정의 시간 동안 베이킹을 실시하는 인슈트베이킹 단계, 실리콘 기판이 핫 플레이트에 올려놓여져 있는 상태에서 안정한 진공상태를 만드는 진공 단계, 반응 챔버에 반응 가스를 선별 주입하는 가스 공정 단계, 포토레지스트가 대부분 제거되기까지 플라즈마를 발생시키는 애싱 단계를 포함하는 반도체 웨이퍼 애싱 방법에 관한 것이나, 이는 상기 인용예1(D1)에 기재된 플라즈마 발생 영역으로부터 시료에 향하여 플라즈마를 하부에 흐르게 하여 시료 위에 이온 주입하여 레지스트를 애싱하는 방법으로, 시료를 가열된 시료대로부터 리프트 핀으로 들어올렸던 상태로 애싱한 후, 시료를 시료대에 원위치하는 애싱 방법으로부터 용이하게 발명 할 수 있습니다.